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DECEMBER, 1886

No. 12

THE WELLMAN POLAR EXPEDITION

BY WALTER WELLMAN

The Wellman Poler Expedition of 1808-62 had two purposes in view. One of these was to finish the exploration of Franz Jesef Land, and the other was to make an approach, by means of what is known as "a dash," near or to the North Pole. Incidentally to both these efforts scientific work of the usual character was to be carried on by a competent corps of observers. The expedition was aided to a financial way by the Netional Geographic Society, by President Jesup of the American Museum of Natural History, by President McKinkey, Secretary of State Hay, J. Proposit Morgan, W. K. Vanderight, William C. Whitney, Richard Oiney, and other well-known public men. The cost of the expedition was about \$27,000, of which sum \$12,000 was subscribed by the various contributors.

June 26, 1805, the expedition exclude from Tromso. Norway, in the ico-steamer Frithief. Aboard were once members of the expeditionary party—four Americans and five Norwegians. Prof. James II. Gore, of Washington, who had placed to accompany the expedition to Franz Josef Land for a summer's work in goodesy, was mable to go beyond Tromso on account of the danger that the ship might not get back in time to enable him to most imperative engagements. Calling at Archangel, Russia, the Frithief took aboard a pack of 83 Siberian dogs which had been brought from the Ob river by Alexander Trootherm, a trust-worthy Russian, who has now supplied three Archa expeditions with draught dogs purchased from the Ostark tribes. In order to deliver his pack according to contract, Trootherm had to make

a 2,000-mile journey over the Ural mountains, across the plains and tundra, fording ewellen rivers and wading deep swamps. Material for house-building was also taken on at Archangel, and the Frithjof then steamed northward. The pack-ice was met at about the 77th parallel of latitude July 9, and three days later, the supply of coal running short, it was deemed prodent to run back to Norway for more fuel. July 20 the ship was again at the ice edge, and after a week of ramming through loose floes and searching for open leads found a clear waterway, in which such rapid progress was made that the ice-capped mountains of Frank Josef Land were visible from the crow's-nest July 27.

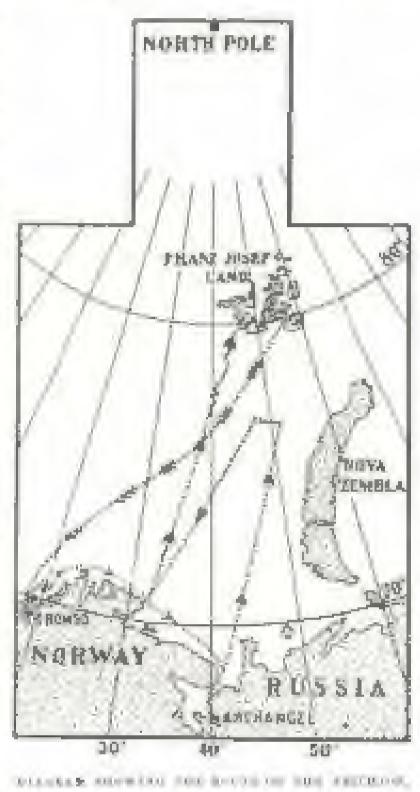
Next day the Ecitigal was at Cape Flore, which for three years had been the headquarters of the Jackson Harmsworth (English) expedition, and where Nansen and Jackson had had their memorable meeting in June, 1896 a chance encounter which doubtless saved the lives of the Norwegian explorer and his compale. It had been the first plan of our expedition to make Cape Flore our winter quarters, and we had second from Mr Harmsworth the privilege of making such use as we wasted of the house and stores there. It appearing that there was a possibility of pushing our winter quarters farther north and onest, we took about one of the collapsible houses, which had been used at Cape Flore for storage purposes, and steamed away to the castward.

At Cape Flora we had hoped to find Andrea and the members of his balloon expedition, which had left Danes island, Spitz-bergen, a year before; but finding neither Andrea nor any tidings of him, we were forced to the sad conclusion, which time has since confirmed, that the crave Swede and his comrades lost their lives by a descent of their air-ship into the waters of the Bareats sea, east of Spitzbergen and south of Franz Josef Land, probably within 10 or 15 days after their ascension.

After making an unanecessful effort to push our ship north through the ice-cial British channel, which had been explored by Jackson and down which Nansen had come in his retreat from his winter but, we moved eastward along the south coast as far as Cape Tegetthoff and Salm island. Off the south shore of this island we steamed in open water over the very spot where the Austro-Hungarian ship Togethoff had been abmoduled, fast in the ice, a quarter of a century before. It may be remembered that for more than a year the Tegethoff had been held in the ice, having become beset off the western shores of Nova Zembla, and that she had drifted helplessly to this spot, where her crew-

through this fortunate accident, were able to discover a bithertounknown Arctic land. Vainly endeavering to find water through which to force the Fridgef still farther north along the east coast (then unexplored), and finding nothing but ice in every direc-

tion, we were compelled to return to Cape Tegetthoff. and there send our stores achore for the purpose of establishing winter quarters. By August 3 this work was completed, and the ship sailed away for home, leaving us the only human inhabitants of Frang Josef Land, our nearest neighbors being Samoyedes and a few Russians in Nova Zembla, 500) miles to the south. Noither Frank Just Land nor Spitzbergen is now inhabited by Eskims or other meribern tribes, and, so far as can be learned, never was occupied by any other men than Europeans there for the purposes of exidering and bunting or fishing. Spiles bergen has been known for 250 years and is visited every sommer by a mande erable number of eralt but



Copperator, How. ha Window Welliams.

Frank Josef Land has until recently remained almost a bereainnegnita.

The elemenolitarious of modern scientific exploration is nowhere better illustrated than in this region. Discovered by chance by Austro-Hungarians, it was next visited by Englishmen under the leadership of R. Leigh Smith. It was to 1882 that Mr Smith on his second voyage to these coasts, lost his ship, the hom, near Cape Flora, and was compelled to pass the long winter in an improvised but built but a few rods from Mr. Inckson's subsequent headquarters. The ruins of that but, in which 25 men passed the winter in good health, living chiefly

upon bear and walrus most, still remain, mute witnesses to the fact that fir Names and Lieutenant Johansen were not the first explorers to show that it wonst comes to worst the adventurous man, caught out for the long right, only make himself reasonably comfortable with such materials as the country affords, while his rifle keeps him from starvation.

Next came the carefully prepared Jackson-Harmsworth expedition, which explored the western and central parts of the archipelaga, but did not succeed in gotting farther north than a little beyond the Slat paralle. Mr Jackson, whom I exteen as a parastalting and conscientious explorer pronounced his judgment that Franz Josef Land was not a good getoway to the Pole, being a mass of small, detached tstands, instead of a continental land mass. My own opinion is quite the contrary. It is true the region is one of comparatively small lands and many islands and in summer the straits and fiords are broken up and filled with drift-les, which precludes more or less, active expeditionary work; but at this senson of the year not much one be lone anywhere in the Arctics, and in the favorable senson, to wit the spring of the year these fiords and straits afford the best of roadways toward the far north.

The next visitor to these lands was Dr Nansen, and he came down from the nexth on his return from his memorable studge partney from the Fram, reaching the northeast islands at the end of the summer, and finding it necessary to wanter in an improvised but. Next spring, without knowing where he was, and imagining himself to be nearer Spitzbergen than Franz Josef Land, he renewed his journey, only to meet, by a twest care and happy chance, with the happtshines at Cape Flora.

After the Norwegians came the Americans, consolves, with our Norwegian contrades, and as we were coming out this summer we met going in the young Duke of Abruzzi, the Italian prince. This young scion of royalty the is a son of a former King of Spair. Amadeus has at great expense outlitted his expedition, and is determined, as he says, to reach the Pole or loss his life in the effort. When we met the Duke his ship, the Stella Polare, was in the British channel, in latitude 80° 20', and with good prospects of pushing 20 or 30 miles farther north before stopping for the winter. Subsequently a pigeon message is reported arriving in Russia with word from the Italian explorer that he is wintering about the Stat parallel of latitude, near the site of the Natusen but. He has, therefore, an excellent chance for doing good work.



Dependent, 1990, do: Water Hillman

in the way of a northerly advance next spring. He has 120 dogs, produced for him by Troutheim, and every device that ingenity could auggest or money buy. The real test for him will come, as it comes to all who attempt the arduous road to the Pole, when he leaves his comfortable winter quarters or his ship and takes to the open field in a sledging trip during the extreme cold. Up to this time it is all comparatively easy, but sledging in February, March, and April tries men a coducance and courage to the utmost.

It is not too much to say that of all the men now in the Arctic regions the young Italian prince has the best chance to reach the Pole or to celipse Dr Nansen's moord. In my opinion, modber Peary nor Sverdrup, both of whom are wintering on the west const of Graenland, about latitude 79°, has noten chance. Their base is too for south. True, Lieutenant Penry has supplies at General Greely's house at Fort Conger upon which he may draw during his sledge journey next spring, but he most travel 150 miles to reach that ourpost, and then will be but a little mearer his goal than the fundance at his base. Resides, Mr Peary was unforturate aspuigh last winter to suffer the loss of seven tues, and though he is known to be a resolute unco, a is quetioned by all men of Arctic experience if it be possible for bim, thus bambleapped to undure the torture of a severe sledging campaign. As for Captain Sverdrup, who has so far failed to his scheme to circumnavigate Greenland in the Fluor, it is not knownprecisely want be is to attempt to do.

With Peary Sventrup, and Abruzzi the conditions are the same in one important respect as they were with us. The effort to make the North Pole must be by a dash, and nothing but a dash. The writer admits that he was the author of the phrase, "a dash for the Pole," but he cannot claim credit as the originator of the idea. As far back as 1827, Parry, the Englishman, attempted a dash for the Pole from the aboves of northern Spitzbergen, and enablished one of the northerly records in that constant advance toward the Pole which restless much has persisted in making. Many other dashes have been made since that time.

Why must it be a dash? Why cannot one take his time to the tack, making a gradual approach, year after year? These are questions often asked. The answer is very simple. If we had had extending to or near the Pole the old theory of a gradual nivance from depot to depot would hold good. Reaching the Pole would in that case be simply a question of persistent effort.

of stretching out a base of supplies, of a long campaign, or of one organized on a sufficiently large scale to enable the flying column at the front to be well supported from the rear. But the polar explorer, like the raining engineer, the railway constructor, and the colorist, must take conditions as he finds them and solapt his methods to them. There are two main avenues of approach to the Pole—one by North Greenland and the other by Frans Josef Land. These are the two lands reaching nearest to the Pole from lower latitudes, but nother extends, so far as we now know, nearer than within 450 miles of that mathematical point upon which it is the ambition of man to plant his feet.

The aim of every pole-secker is to get his base or his outpost established as far north as possible upon the land, and to make a dash beyond that point. Thus Mr Peary planned a depot of supplies at the extreme northerly limits of Greenland, but has not as yet been able to establish it. Abrura is wintering at 81°, and we made our headquarters a little north of 80°, and established an outpost about 81°. The explorer may use two or three years in establishing his outposts upon the most northerly land he can employ for the purpose, but when he once leaves the land and takes to the frozen surface of the polar sca his journey must be one of thort duration—a dash—for these reasons.

In it is only to the spring of the year that he can travel advantageously over the ice-sheet, and this is so because the winter is too dark, while in the summerer the warroth of the sun makes the snew soft and "sticky," fills the pockets with sludge and water, and aids the winds and currents in breaking up the ice. The favorable, practically the only, season for travel over this drifting, shifting field of ice, is confined to March. April, and May, with what little of February one is resolute enough to use smid the darkness, and a part of June in which he may still do something before the snew becomes too soft. Thus the polesceker has at his command from 110 to 125 days, according to the earliness of his start, in which to make his northerly journey and his return to the land.

2. Everything he and his dogs out, as well as the fuel for melting ice into drinking and cooking water, must be carried from the land or the outpost deput, not only for the advance journey, but for the return. Nothing can be had on the way. There is a limit, of course, to the weight of load that may be carried, and if the sledge party started with supplies for a six months' campaign they would be so heavily burdened they could make no



Copposite 1986, to Warner Williams

propress at all. At the minimum each man must have two pounds of food and each dog one pound per day, and the hauling power of a dog is limited to about 60 pounds and of a man to about 200 pounds. Resolve, there is weight of dedges, in struments, bedding, weapons, etc., to be recknowed.

It is useless to establish depots upon the ses ice beyond the land, for the sufficient reason that they could never be found again, except by are good luck. Even to winter the ice-sheet is mover at rest. It is constantly drifting to and fro, with a general movement, as was shown by the voyage of the Fram, toward the west. If one left a depot upon the ice he could never he sure the lee had not opened there during his absence and destroyed it. On returning from their shedge journey. Namen and Johansen made no effort to find the Fram again, though they were at no time more than 115 miles from the ship, and on their southward march, with a dreadful and doubtful prospect before them, they must have passed within 30 or 55 miles of her at farthest

Limited in time and limited in weight, the explorer perceives

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often change with amorning rapid by in the Arctics, as d so it was in this case. Within less than 43 hours the party found there is very and indicate the rapid drifting out to sea under the influence of strong offshore winds. Nothing but desperate, even hereir, work excluded them to save their lives and the value be partiaged. I done to the partiaged and partiag

partitly by a seften water, and wate at length is super ed to stop for good or account of sufferent the element and the rapid up roma and water

At tage littler they are and at of runks. A few pieces of red wood served for the releaspole. The holes of walrus, hazed n the waar pools of A istra sound, warr - y, formed the roof. It this but were necessary atests much a top of stores for the the following appraise sterious bonts, and other articles meeded on s engle jour mys. Forty dogs were there also, and for their susper areas committees with the thought of theer markings were the compared agencies and stored in a trip haut of smow blocks. To protect the host from the worder automost lagt, was a figure. were burned. I these made the presences book an original like an Ill fashtoned forteficat or that Mr Ball win, length of tone party, named the place Flat Mckindey. As soon as everything was made snug for the worter Mr Ballwin, privagent to his instrucs, asked for vital leads to return at the aut through the moter to guard the expense and care for the dogs. All five of the Norweguan members of the party officed Livie services, and gree was the double problement of too If prop we have to be their ear-For two their testion of the the took were Earth Ignerysgand for the Bertzen, of Tremese, both someore, merg do re, and warm the rest Together they and then talked of the preserve at wealth be to ones a writer in the Arches in a notice to it well stocked wit. I on. and tolonome and it a was to be the real zer or of their events.

Ther or thus pain was not one to mexperience. In it bearing was a veteral Arctic sailer and traveler, and not been with the Wells an Export the of 1804 to the north of Spitaberpon. Bernt Beargen was a member of Dr Narse vis grew abound the From on that famous drift-voyage through the polar seas. Both men were happy and well when their comrades left them and started for our healquarters at Cape Tegettleift past at the beginning of a oter. It is a conscidence that but a few miles to the west ward of this but is the open whom Narsen and Johansen passed the wester of 1895. Do in a summer structure, built out of such materials as con-d-be found upon the ground

Meanwhile it ose of us who had remained at Laps Tepetthoff were busy preparing our own hassa for the long winter. As feet exceled, the but was a more shift, two it chareses if thin boards with an a respace between, and a roof of two layers of carries. The house was tended, one of the sections containing a discrete and two others little wandless. With planks converg-

angulative open of the right we built a rother shell around the who cowalled a up with biscus of anowand stret heads that out over the the shape of an of the carded masses, from the Holdswitz when the wonter cause on the carriest the snow are ted over the house, for y burying it as were as the store-shed which we notice that age in of the search the secret file is a which we wore thread inder wants of the extreme three three houses there were not a fact adarthees just two signstantities should then other as a hadron hadrather.—the late etter provide the open of the rush, and hadrather the erry sinches, and about the open of the rush, and a true is the three as the cuttainer is a sinch that we crowded in a raking agrees or opters.

We consider a manager a core of scrower looks, too, the properting and write to regard and magnetic lights and from the firm of storms, and within this one raise it and no room Mr Baller. Tables to be gest for explanal in Monagare hargest, and this charters the pays ast carries on a series of observat, estare of out the stick season. Mr baldwin secured or mu as therm grapou, surrograph, ter there is our other responds reacting our entire appoints. the first directors, and also create a notation paradicking strong of the necessary because on company agricultures manifestations here with an alternative eateds where we had made is reference the best in preaching the life. a contract one made of a term and the purport of a lof seventible. roops by, when emberated and parties ed as I has comed they are to be by the government will, an my operateu, form a value as were translation to the Laboratore of shutto, i.e. Mail achievalso. States the narous, particularly from the point of view of its effect up with a magnetic month, a. I have port thereof, so welas I spenotal satisfied the physical is paint a soft for a deserat I a tend to publish a proper are notified east some as peer he. Dr Edward H. Jane, modical officer and inturalist of to next much the brasin most interpretang teps of concerning this fact the Howard Lost region.

With our lative passed a very confirte le mater. It is true it it at moss two tromantacion, language a son too wan la sect that the dan interest we has hard work keen it to head a sect the zero mark and where we sat upon our park case a nast or theorem," I can drest was constantly I amping upon the water host a lities was recket educations of the linear after from the citests of the linear after lift there was any negation as the vist on the citests of the linear after lift there was any negation.





Ad three of my American contrades, anfortunately, were done excret percels done give written and the mode it imposse is for any of them, to accompany me upon the mease journey to the north, for which we were adwiced by preparing. But these distribute have most of themselves at home, and were at 10 way due to the chirate or the surroundings. We load good leds, good food, including plotts of tresh lear meat, and American onto eal, baron, and thap, who were not forgotten

to the most of us be w. der seemed short and not much of a test of patience. True, the absence of the eart for 127 days. Hard to glide was not new that of a deperture too, leading us to the enticorsion that if we were going to pass the remain for or our days. a those regions sun-worth, on the religiou which would must Form of you press to us, but we had work to co hears to ke series. taffer observations to carry on, brooks to read, exertise in the openmer to take when the winds did not blow too severely and the ought was place too long. A nest every cay we were a tiling we known that upon showskies, he had would it was to get about in the crisp a ring it the bright moon, git. But for the rubon this farer orthorn world west dibe the very depth of gloom doring the was tor; and when the skies were clear and the moon was ful, the Arrive night was almost as bright as a witter day in temporate zeros, and some of our best postographs were taken in or these. co. Oak

and ring was not imprecised by any men, or of a regard, everin the call best weather. A this of was or was taken into transform a date, one had a fit a some and I mugil I to temperature there was usually from 5 to 15 to low zers, we stripped and land ad in talk reable con fort and without taking colds. In fact, such a thing as a cold the writer has never suffered from it the Arche regions caough as has outled in the open sea, diving from feet eags, and refreshed himself by a naked plunge in a natural too formed of tee floorand water. Wood in new admitted to be better than are for extreme colo, to mach some travelers charg to for garneate. In the Arcticannell is not suffer from the direct offerts of cold but from its adirect affects in the formation of frost and amay with a the commagnate to congelation of the extalgaous From the among. It is for this reason that would make see autient ority to skins as the former perm t the moistage to pass through the fabric, the frost forming onter to, white fare retain it with n Upon the stedge purpey, in temperatures ranging from 1) to 48 below note the writer were no furs, save a pair of remiteer skin

the end of the parts of the knowled which there is a great to absorb the more tree. He have a special ry force in grant to absorb the more tree. He have a special red for and at a after the act not we can have outlood the conduction in one of the light to the kneetween a set of the light to the kneetween and the conduction. He aftered has the other in part to character that when the tenant with the kneether and the conduction. The paper has the act of the same parts of the light to the conduction of the conduct

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The Acct a trade wood reseat following causes as the that we always will known to payment in it the southers bemisplices, blows from northeast to so allowest as the traces of the region is owithere, intorillow from sout least for it west. In had ruses and of references not the relary to their of the partie. . The G worf wooden, are toward warrant zones more, too surforce of the earth. It is this this term a wind which produces the set representation Arctic sens from the continers coasts of Steems. to the great on let of the organ between creath of and and applicabergers—the some moves eat of waters that for Names and so is positioning the Franchistage in safety of himself as a we had apportunity to observ not a my the effects of this current pouring lower through an the sounds a listrate sound or much winter, either an ler the see or breaking the see-as eet in dicarrying thou bru with it, his also the meeting of two approxing forces, an only the Arcin traces and the Guil Strate. The In gity ocean rever that he conclude from the Gulf of Mexico, trayeness the coast of North America, and process the At at tirto the sharps of Great by turn, I vides there into by a brunches.

that flows scattleward toward the equator, who a the color irainger ups not the coast of Norway, kee, mg we-free all winter the flords and numbers of test protocost, to sometry over further n rib than the latitude of Pour Berrow is Alaska, and take howing on into the line its sea against the western need of Nova Zembia and i, thus turned nord westword, continuing its pourse to a westerly direct on aboug the southern coasts of bound Josef can't There our investigations and a servatorie era ed as carefully to the ettle mingling of the two impeda-Just us the Uniff Stream is the product of any pring up of stances of water with a tre Guiff of Mexico by the trace winds of all electric transcriptions, so the Atrite current which bell gal the few waters down into the Atlantic from the pour seals the proceed to fill a mort term trade woods. We wors to is state ast advantagence point for study of this vast ricolatory system of son. We were at the muct up of the waters from the two It less of one overly

If great importance to explorers a this constant more next of the liquid masses which are pange upon Arctic lands. It frees there not of France loss for all of one through the symmetrappths, a sking manget on a stangets shores comparatively may at that season, even to determine the lands for a to explore the following manner to the south. It brougs to Arctic shores, too, from the beautymous of Stanton tivers, masses of draword for fact and a made goat posses. It seemed to as a remarkable season of nature and we should find that or from the tate that of Aria to pat to to out I tile had and to burn with blander for our free a th mander we are not verticated in the south which we have one of a sea of the North Polymonal!

While with a sor freed and at three we triangly at not each abaticouting, after all beriefly fresh water can op an ug district free in the are resulting amount of the three distributions of the state of traced in propose at sort very discretible and an area of air ast as free as a critical free smoothers, contains about a distribution as as free as a critical trace to be stor, and right by a stank at distribution free traces of the stor, and right by a stanks at distribution to each of anter of the confidence of the story, and respect threw freewood upon the occurring a life of the free freewood upon the occurring a life of the first dwelling, and never at any than did two cases read of the first dwelling, and never at any than did two cases read of the

To su less winter was light not to your Best of a point for owen parado with its. It and Acc. v.

porting parties standed bond but one tatamatity. It maybe to record that though we were Amort at exact Norwegas is, were in one little morn might and day for five morths, not a word of discord between has kees and Norsemen marred the novel experience. No bester in more fast full map ever served under the appropriate of Norway than those young men who I vell with me timeer the Stars and Samper at Cape Tegetchoff that water, in the most portherly inlinded at these as the world, and who subsequently agent a are large the sledge practice.



Lawas on February 18 that we set in upon this trip to the the fit. The sad has not given has to ename were shorted done. I have we know that if we were to have the Peap, rough have to enamed it does a violant have to etail very entry in the Archa have the Wilst and educate etail very entry in the Archa have the Wilst and educate etail very entry in the Archa have not rough reconstituting to the continue of the continue that had been entry as a continue that had been entry as a continue that had been entry as a product of the continue of

water. Bentisen had been taken at in November, so rily after or men had lest the two there legether, and had never recovered. Langering till January 2, enrefully varied by Eperring, each had then come at Bentisch entired. All the Lyoering to the me, when at the hear of and then processed, I not the standing in front of the tanner which had down and the theorem which had down and the theorem buried had. Then we encoded in and hypering poken up the 11 about at the strange lattle care, its walls coated with hour-front come with in two feet of the bring about at the strange lattle care, its walls coated with hour-front come with in two feet of the bring and themses.

2 Where deligner over Hentzen Paul ? " I asked

"I have not carred a n are" was the rely " he assim

a little later—a lacycle later; it had been here in Washir, ton and we keet note the darkened portion of the bot, partly partitioned from the remainder of the apartine it, to work Paul I at partly and. As soon as my even had become accustomed to the peculiar light who have freezed walls and for I reflected from the dam has p. I saw at my terms one-man sleeping has, bearing experience that it had been occupied by a viving us at 0 on ghi lefters. By the side, within arms speach, by another bag. This one was occupied, a which been for several in oths. Bag and enable the were now frozen as so, a as a rick. For two took be of schoole and at the Arche darkness when taight was at to be distinguished from day. Two the arche with the court a this Arche tot.

Progress had not not on bentzen because he had pron sed to a was donot, and he can promove there are the sick man server that if hursed in the continual tarkness it would be the transfer that the bears and fixes might get at his mean as

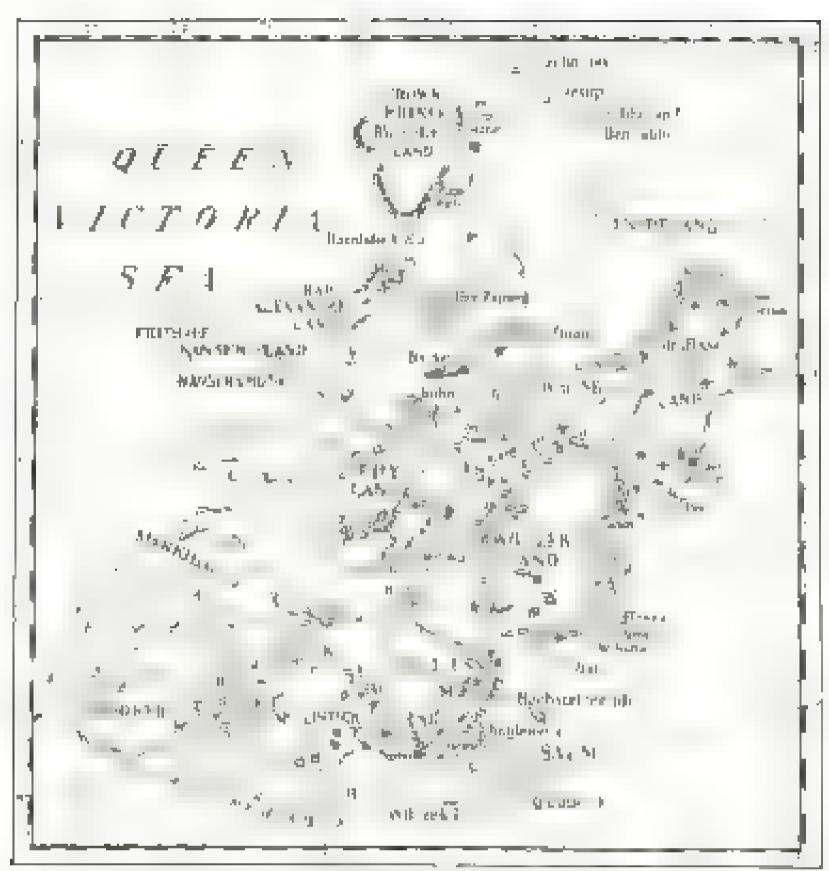
Note that a directly the description or call through which he had beesed, theory gives an in, a needle allowed in them. He was a then a group, and I ad differency made earefully very it in a hore which the world at the horself of the tweese a torday 45 below zero a finishment blood blowing rown from an placeters. If it is most industrious man of us an after the other fineral decembers was final. For a was law hasy thinking by all the openings on the wars invariable to the tracetors. If it protected here deliberates and forces the tracetors in the war and the resection in the protected here deliberates and the war and the resection in the expense and the expense

We had been by wan as, combined to the original pain, and constituted our journey to the acres. In a ghother was etal, glass v. the snow ree, in poores, starms too frequent, the receigh, and for coads heavy, we made estadactory progress. By March 26 we were off the east coast of hy do f Land, near t a Std parallel of Istatuate. Car prospects were bright. We has traveled one-fifth of the way to the lede, and has yet at our command for northerny advance against suspin weeks of the most favorable season. The limit passes through the wrist of the darkness and med sock and just sea deal that percut when, in times limitation we were to himse the said of the time in the tobacetie. All our train conduction and were in good countrion. and we ware senting the vertory that my before us when a sees a talk travial negatives not negated to one of one number. A 1 prictely with before a fall, and thus real, glorying in los strongth. and so larm was an ped white work. It is enledge through beavy co what has taken of dogs and fell in a lamb crevice in the path. The burt which he received would not have been see ons had bestopped for ten laye or a forcal bit for pet; but at that work, with the farthest corth, and perhaps event to the dised, beckenang brus ing ore direct theters, after a ways triungs by we also betief the text day and gate with the cay after. For relicense grang, dragger grit reself along, the lactors are the show any cango no fardier

Then can a the fit meetest. The moved out that to respond to a special state of the translations and his cope. He suffered, of course, but quite us mater in his products in his to y for it is and moust to be haded off the field of but he. His Norwegian couple as we was brown as consist as to our as workers. They ourseld the analysance he as high mode over the trage the associal as a contract and consist a special operation of a field of the analysance he as high with act water as temporal areas of the action and an acquisite of the action trace about the approximate and the action of the action of

If he main rang so theward ups the scale in three first days of April looked orangy to the restand, a creating got of ice-capped and a nonly to a notion and swas section of veets he would take he saw an appropriate Norwey are out that in a payle of weeks he would take he saw an starty Norwey are out that in a payle of veets he





Enach to the date Yapalla 9879, who is firm you have one happy out. $d \mathcal{G}_{\mathcal{F}}$

Truck a reduct degrees as the Wellman't new case and a

The topogram a Period Absorbed on after 2 months on art. Adapt Change a period

p, that was a than other evidence that it Arctines protected it is a good a ring to have plenty of optimism, served in daily rations and carried in imperabable jackages.

This previous was subsequently made, however by a party led by Meteorologist and iwin, and the result of it was that, whereas when the Wolman expendion arrived in Franc Josef Land the eastern by its of that but were taknow that I formed a topic of discussion a mong prographies they are now easefully marker out upon be map. By means of these two alerge jumpleys and a voyage in the man fored parts of Markhaut some, subsequently made in the steamer tapella, which was bent after the expert solutions or real design and for the allocations and the major of that area, and the pleasure of pasting the names of was known American scientific and per men who had defined as the expension is, soluting that if one President of the National

We hear testation of the surprising are true violible survey of a part of Fronk Josef Lan a which had been made by Paper, the a scoreger of that region, to years he re. His one great error, the acation fact energies glacer capping a land of error eater of consideration of a constant as glacer capping a land of error eater of the acation fact ensured to Dr Namer, who had landed at all three or a part decrease of the Dr Namer, who had landed at all three ensured and crosses in a journey over the sea not be shot where Payer had placed has have glucker. We consider the shot where Payer had placed has have graph a reserve for the graph a species of exist for a six posterior and the first or as a general species of the lander of a graph as a series.

For these and workers the path of Dr Namer-layer more seeding, and sey to the farm of a, whore we saw, but on the tree of these assumes which he mude desero with otherwise man they interest and the course man who more saw acts in the brider diameter and along the coast of Northermore and acts published. We retret, of course had acted to a diameter of wrest from the gardent which depresen the if our chance is wrest from the gardent which depresen the information and hing to the world a non-cet way a sound of the furthest with, but if we have a non-cet way a sound of the furthest with, but if we have a non-cet way a sound of the forthest with, but if we have a non-cet way a sound of the forthest with, but if we have an according to the world a large man at a tree sacrifices.

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THE HAPPIMAN A ASNA EXPEDITION

BY HENRY GARRETT

Charles anguagement to be forming and Marrier

The expectation natives of ware satisfied have appeared in earlier and takes of the Nariosatisfied have appeared the football scattle of a section July St. It will the same part for the activation, an in the nationed by the lays the foregot William teaming the extremited which there is no disting the entire morthwest court from Sent. e to disting store that the National Address that after a top were under the Externation is no teached to a get sent way on the necessarious og sketch man of Anska

the party was composed. If the learns on a family and a few a fine a with above 30 action in most and 2 a sty of 30. I can improved so logists between the 2 a mod geographers. After a present to feel a first the presentation of specimens, etc. I. show in account observes for the preparation of specimens, etc. I. show the whole extend took, although 5 to, and 1 remainly as a pleasure to 5 for the Harrist of a fine y, was set and account at the natural ways to the meads of the extent the party. Even the novements of the samp were accomped any by day by a committee of locard in the account to party.

The general plant are set was to follow the coast, making it set and a standard point to fee the purpose of making observations and oil actions. The steamer followed the messee passages as for as Chapter any making an order to a war but here of much direction and the actor bay was reached. At this point, what its notable for the notable sugar set who have a for several tags, which were the governous to the shape remained for several tags, which were the governous to the positions of an appropriate for purposes of comparison with earlier measures and a magnitude to the feet parameters to the feet and the properties of the purposes of comparison with earlier measures and the comparison in a factor statistics. A maintag et op was to a set in Yakutat buy, where we steamed was taken not only to the hear of Yaku at her properties at traverse, he extension to the hear and spent a week to take tot test of most a major of the action of a comparison to the hear.

The site shares are unity granters, for of which are of record works extend on to transmid drop being minime sea. In this of the metexpansed and mapped are of the free glasses of America, at the extension the north materials grant of the fit of into what the examinal that are presented for a fit of into what is not season governor grant of the property of the examination of the examination

here a limited Manager search the local westful Harrison palice as-The says of a theore processed to bushock of the waters parts a were at softer in tigger once out 6 wheth I classife fourt non-steed to a Alberta per the big presenting of the production of as referenced to the assume support and a programment of the second of t on exists. Leaving because, a word passe was no cont acigos is at group of avolvation in white que of the maneent pre-June as secott or a sat for massa, present flage; Mornov the another. whose thord of the Pauli ferral of the area where a short set of the set of the party the large aim of 1 to once to 11 vertically, in most engine Schepe. where a or has dat people ware that he as automat. The wall toncrossed a lora far are passing just south of lating 8 rad, When I stable of the I reade is at large Clurence was to a deet of arease sizes a whalepower converse wanting there for the are to reduct from they are new of the eigense. Through Post Correct the best trade terrous parands in purpose St. Lauwren e, tet Mottenen a. I. Ha. gelegde grod thence steered a secretarit comment at hadresta. Paris font provides a a retigenous to wental aforeowing map because the market is a conservery to as a et a parameter magazinavely for por ta-

I in 130 at 1, the expose accumus great of houses, by the weather of the accumus to the second state that the self-special content of the accumus that the second of the accumus to the accumus the second of the accumus to the accumus the accumus the accumus to the accumus to

I never do not be bost of A. say, from the loant forth a A. ettlan islate some the never forth a succession of partial forth when a court true thous the next true long for the other to nation the next to any forth medical for a result with placers some them has a post.

ruses these glacters at it extend so far cownward as to prepriate their fronts and thousesp where fitte flars s

A few treatest I years ago, perhaps at the time the Fey tran-A Vita walls were realled that Language and form the in and presences. row traversed by the team of were filled with great ravers of a m from Largest 196, or nearly to the mountain gaments. Indee, and the true spread in great a costs, or verify ad but the by best mean stoons. The remain fit to see, thou, a apparency as soon has vet been at wo royal as rate that the affect band where first et retera, has endered bide from at maji est a jeous compris The granua carrier grand as already with evidence, made this aminregion of excessive mande, and step stones where my ten respe-S'un tament has the n. I but these of test regions, genery forestthe law is the remains of or air farever a rier fact, we may pass. gong up the flores to land continuously younger. As we approach are generally corner call forests a sar, pear. There is now but we have government of trees, and these become you sper and emader. So a they are so received by address (w. low correstion by grasses and around paints, by to essent and other tiw a runs of sugetament, and, bradly, by bare rock mages, princhest a Lecoured or recently samgineral gravel a few anter only fer in the area from to

The grantest are still retreating. The next gener is a well find. town of Lambo Will as our fraction shall I also seen, sea arguing a right The topoder of the glacier, as it conducts for brothe sea, upon a be no nitre heard to the air d. A century ago, when Makepian experred these search of onester led much farther dear re-It into them is a conditional flords of seed which in a care spear atal there as that on to title a lebether extend of far beginning On the many in the companion of apply and a company present flow other But I, at a for the moment believed that to here a had see even to reserve the large-ought portament passage, by the warsome evaluated by a boot is wall of the will callege the configuration. water to a declarated forther passage. Paday and an explosion of perpost is of Yak that day I say that to each but for I warmer a war over how ere errer, the for it of also bard gas er and petherefore and a part are new 25 in his fact are away. In earned of Russel for , as the seal I wana extension of Yan ital bay has been united, a honor of I sai a c' Russe a who first separad t. As non-torsefore was and on by the resemble of Historia gracier because a lake, with its sevel some 214 took large senno smore the large beauties a regular whom he en it overdone

of Yak dat hay Here, therefore, is a flord 25 mass of leagan,

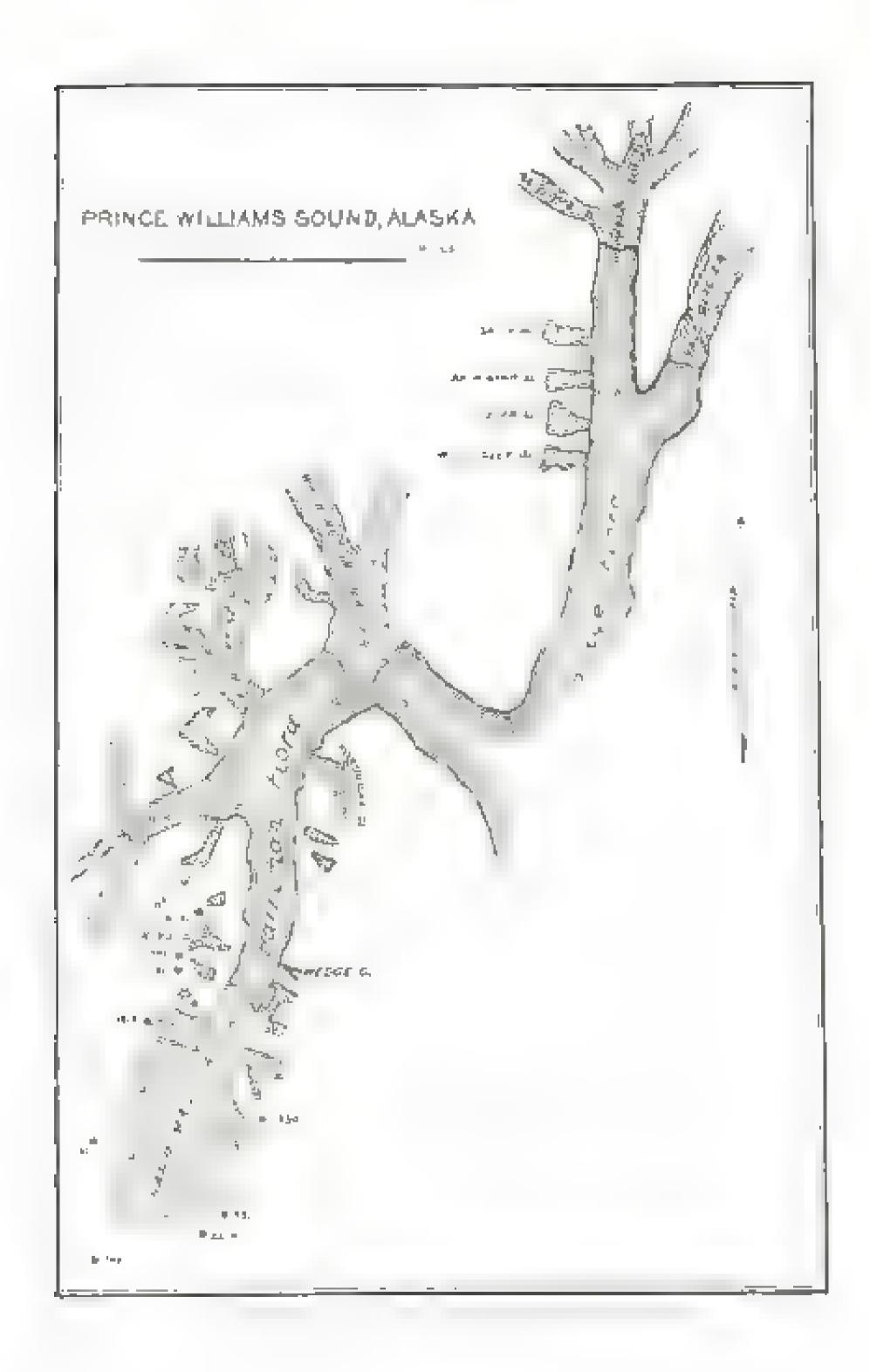
opened up within a lentury

Port Wells, in Prince William source see may, page 511), is a fine example of the retrest of the new and the opening of one pathor waters. The old charts come that flord to be only some 30 in in length, whereas the explorations of the Harriman expensive a 1889 show that it now runs forthward into the anti-hot less than 4d times. If term nates at the upper conditions we beauties, energy ed by a great placer, Table and Harvard, whose from the are in the water, while along the west sine of two flord are four smaller glacers, turnbought and in the essenties from "banging wall ye "later the water. These terminal placers have retreated 3 put as in a century.

If the finest of the perent accessions to the matigable floris of Amskin is the Harrison fiord, it servored and mapped by the expedition. Thus is a western branch of fort Wells and to in a under of on any object. Five onces above its cloude it turns wright various a northwesterly to a southerly arrection and runs. I mesoures so us to better. At the bond it is rearly closed various meters if washington glacier. In feed, all outsideding glacier is been known if a grant time to the people we have given these waters, it was supposed that it extended entirely across the florified sing it. It was therefore a great surprise, even to the local plot of the Ebber, where a close approach to the fourting waters glacier discussed a passage through and not open florify med with magnificent planes are and mountains, bear not

I the top the commetances of required great here to take a lower story that the continues there is not unique from about in the open find, but a prepared of rock which they it in carbon down into both a familiar major to reach the encount to each the ground the process of the first plant is a property of the first plant of the field, that plant is every worst of the field, that plant is every worst of the field, that plant is every worst of the field that the field is the field of the field.

For an author we it is certain that wit in a contact the bour great gla cerawhich new drop borgs into the wavers of Harmon affect were no ted to one, which recupied the flora from as present hour to its month. Moreover, but sew years have obspected as Washington glacier bringed or dumined the force at an best lades or gift to adorness except by and journey. From these, and thought to standard resources which is gift to discuss a coar throught to Abeka is "Our You" gest Possessing." The coast, at



least, has been recently configure and for me allowe inviged as yet. The participant of the light there are at an expension as and burned as peak are cover see thousands of fort in this kinds. The Mair gais term one in version arougers addy as largular the state of Rickle. , skind and there are so read forthers con activide with a manage pade. The region of rin of Pronce Winner rison. I is covered in greater part y give after. There are continued by the retionalize in the the read factories abelieve, ongoing parated at the Medono. My in but peressiont ye verlooken by gellogaste, is forced w apon the after those of the traveler on the Alajesta goles. That is and the exister woll ghe of forders no exist encoding a state of a of the orest. The Alaskau flords were cut and are being cut today by gracers below send year. It has be that the constant we leading that has broad abuneacted at non-graph, and only appear to a program. are now protructing it car from to make material and dred fatherns. deep an training indee from where the shorely e would be were Large remotest

Of the results her emphasize by this expedition lattic can be said at present, since attic will be known in the the specialists of the expectat, since attic will be known in the the specialists of the expectation collected. The movements of the party were arranged in suit where so to be especially taxoral e to the work of the lind distribution. The frequentiate with additional them are of particulate with many different beauties afforded them are of particulate for a thorough study of the distribution of another diameter life throughout a visit street or the chart inputs a state vely larger at parameter to make quate estimated at a particular regions of parameter to make quate estimated state excit the extension of parameter to make quate estimated state and a country freed from the recovering and of a larger through of a chart in the treath of a chart in a state.

THE METEOROLOGICAL GESERVAL INSIGHT & SECOND MEETMAN EXPEDITION

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During it a vegues to a southermore towarts we of we was to test it has course at a source of home 28, at three 130° 10° No brought a source of a large restance however, of but stone poeces. The regiment temperature was resorbed at Archarge set, 77° F. I the 4 home to get error, the temperature recorded to the other a surface boundaries sea varied from 33° a 4°° F, grantally fact up to from 37° to 32° F and git a south error east of Frank I set based. The same quester to be elithered to the sea to vary beautiful from 27 per cent, while in the Whi

angel of the Da on from The ten peritor of the sea varied from a most less had be southern part to the notation Topotate of the nervoyed to all the nervoyed to all the nervoyed to a new more on the topotate of the nervoyed to a new more on the topotate or expenses presented to a new more grants and a

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and two excess it a new of narma toos, endes nearly continuous intensity of the value of an exception to the properties and very tree of a speciment of the continuous fitters as governance.

wearanter conditions, no versions of large en-

the solf regretoring intra north were extraed in a large insker tarough which the area to include freezy. The makest rester in a and flated rather pill we. The one consists reasons in antited in a brewery pill serion feet in reason. Whether our the sledge or in the book, these inscribing again or are easily care in the sledge or in the very slow progress made an advanceing the equipment from the very slow progress made an advanceing the equipment from day to day the value of these fields according to a respect the following of which all not exceed they are set in settings the an extremely the analysis for the the that in different targets are into of which all not exceed they are set in active or targets.

From August 22 to better or Landston was no chared at Some buy. We zet and do no except orang port for of strains we were a as advected a except orang port for of straining to mere to one of that some range are region. Straight to be cry whals they almost in result y, so cory, an education estimated scow, rate, a range and a range cory, an education estimated scow, rate, a range and an orange cory, an education estimated scow.

On September 10 we made a freed there agrees is a read a ser, Storm and to a serve the transmitted and there there are we ere we at a throughout and mamed the some fort block, whey During this pleasant the sent register the proper distribution of the moved. The post of the removed the through the local term of the through the modulating the height above sent level (1.1 k) fact for I the many made in the of the surface we green here you eye were process.

As a detrained to weather on this joiner I quote from the justonia is follows:

September 18 Wentmer elemen, but the wind from the per 17th to 10 m m, this meanaged it makes per nous from the southeast 5

a book provided the electric terms of 100 feets to the constitute of 100 feets to 100 feets

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g in ge hoet Make a re-

west days inter I decree well to make or off at a good to with Mr. Velican attape foretty of middentes to repair sted I could not be explained at a work at hop Merc day to past more, and for this research as we are a distributed the count to of they is a highest fill space of the object to a man finan-Nonwegam with, ordered y book to make thout em, it is reach. Case Percent of E. They, remover a county make of these or the solder may not reparted a to be a catter inpresently to organize being t rough the "lightly "greefale of to a sou need to bee remained now a clier rounse to parameter put was paterily first e I restricted to learning a relation agreeably to anstruction to return to ligariquaeters, at those Tegetthorf. For the first time this segment therefore if the temperature despited acrow germ a but degree balos nest, and to the last of Phenos. On the 14m in their clittle young see was strong enough to a proct the neighbol's large bear, it was still too a easily as admit of sledge frage. The first fit is not at the temperature of the sea material these rope was 15° F, must fit and more to 25° F to be a material. So F is the fit is a more to 25° F to the action of the season that be mobiled to the range of the material to the material to the particle of the material to the materia

On beach Applied see a stor regular observations were a vicinity of a certain of the certain of

Here is the member of the above severes and a second to no for a member of the above April 20 to May at 180 at the the statement part of the above the factor of the above the case of a test of the above the case above the case above the above the case of the above the case ab

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The ed total foot acto to a various or Parks then prills become to remierat describe for major acts may remember to specific the major applied to the same with it affirms or may make the England and the limited States." They are as follows

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GEOGRAPH C. LITERATURE

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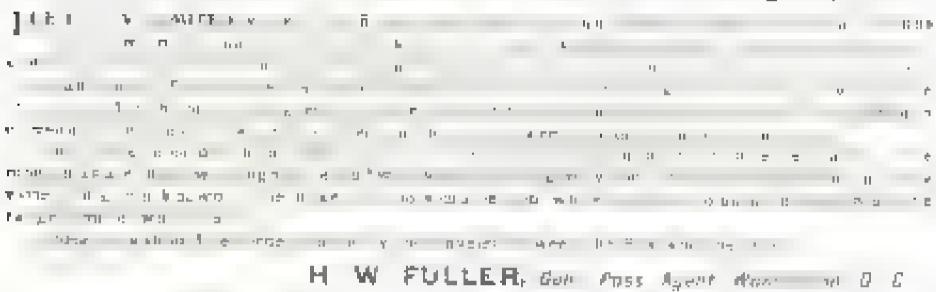
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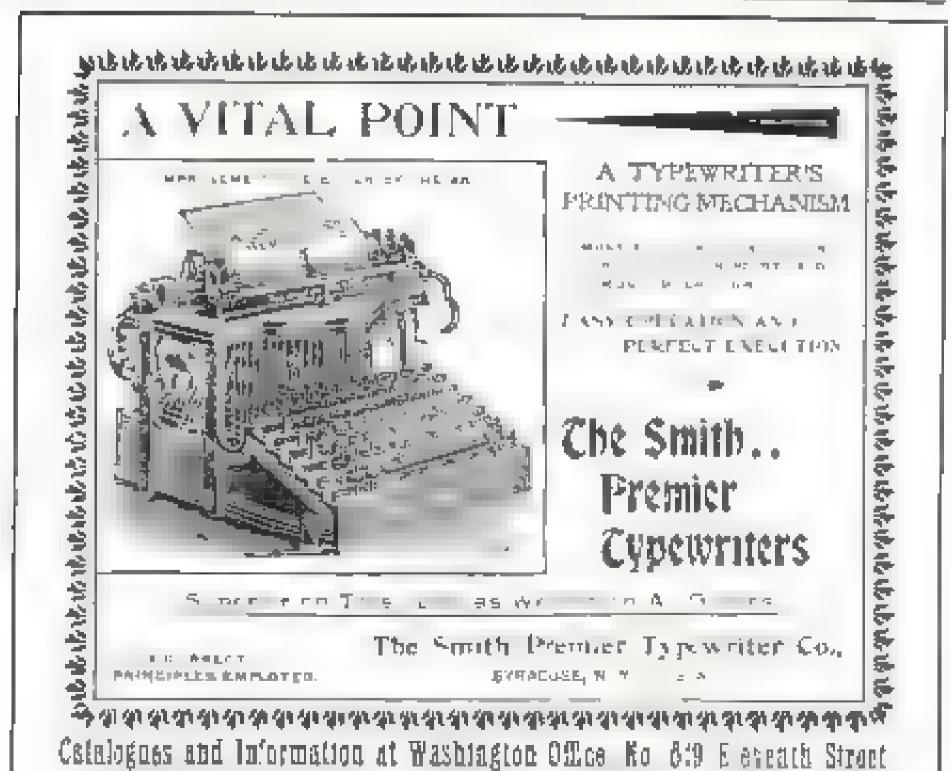
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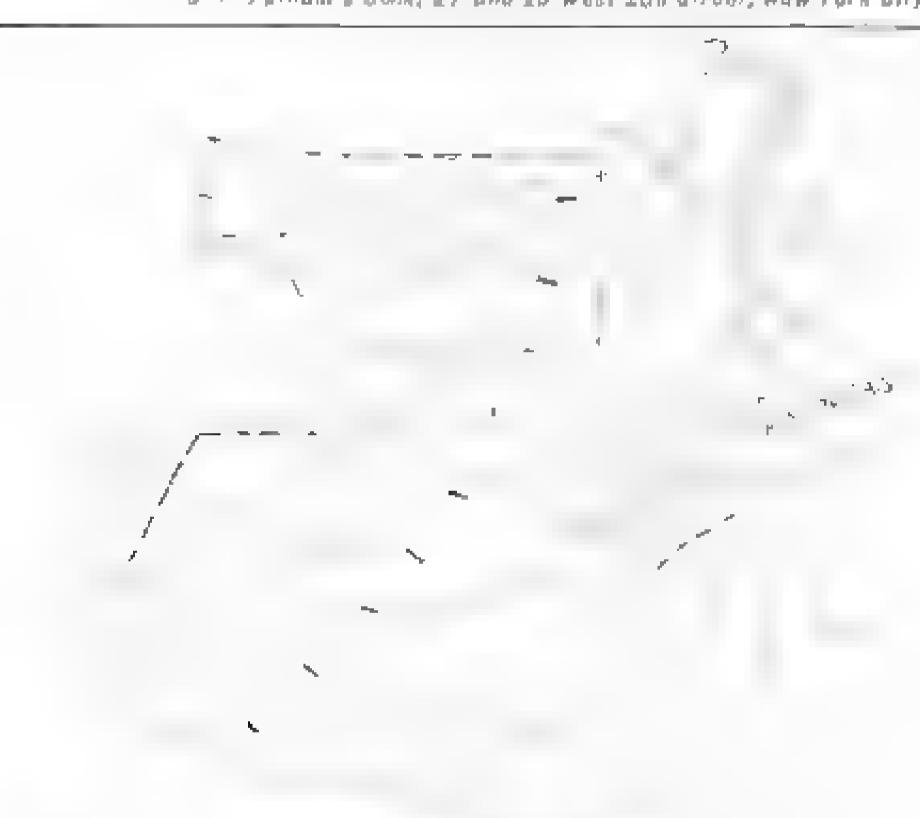
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